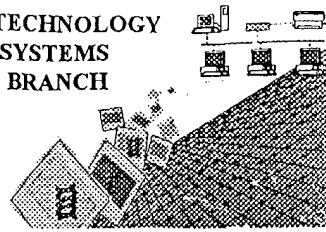# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: *10/725,969*

Source: *ifwp*

Date Processed by STIC: *12/15/03*

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
<u>http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm</u>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<u><http://www.uspto.gov/ebc/efs/downloads/documents.htm></u> , **EFS Submission User Manual** - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (**EFFECTIVE 12/01/03**):
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

II

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/725,969

DATE: 12/15/2003
TIME: 15:38:00

Input Set : A:\34587-C-PCT-USA-I .txt
Output Set: N:\CRF4\12112003\J725969.raw

```
 4 <110> APPLICANT: Fisher, Paul B.
 6 <120> TITLE OF INVENTION: Reciprocal Subtraction Differential
 7         Display
 9 <130> FILE REFERENCE: 34587-C-PCT-USA-I
>11 <140> CURRENT APPLICATION NUMBER: US/10/725,969
>12 <141> CURRENT FILING DATE: 2003-12-02
14 <150> PRIOR APPLICATION NUMBER: US 09/644,460
15 <151> PRIOR FILING DATE: 2000-08-23
17 <150> PRIOR APPLICATION NUMBER: PCT/US99/04323
18 <151> PRIOR FILING DATE: 1999-02-26
20 <150> PRIOR APPLICATION NUMBER: US 09/197,889
21 <151> PRIOR FILING DATE: 1998-11-23
23 <150> PRIOR APPLICATION NUMBER: US 09/185,115
24 <151> PRIOR FILING DATE: 1998-11-03
26 <150> PRIOR APPLICATION NUMBER: US 09/032,684
27 <151> PRIOR FILING DATE: 1998-02-27
29 <160> NUMBER OF SEQ ID NOS: 42
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
```

see
pp 1-4

Does Not Comply
Corrected Diskette Needed

(only errored portion
shown)

ORED SEQUENCES

```
1041 <210> SEQ ID NO: 42
1042 <211> LENGTH: 304
1043 <212> TYPE: DNA
1044 <213> ORGANISM: rattus norvegicus
1046 <220> FEATURE:
1047 <221> NAME/KEY: unsure
1048 <222> LOCATION: 2, 7, 71, 80, 87, 88, 92, 97, 98, 99, 103, 109, 110, 130,
1049         133, 141, 147, 150, 159, 162, 165, 169, 172, 174, 179, 182
1050 <223> OTHER INFORMATION: c, t, a or g
1052 <221> NAME/KEY: unsure
1053 <222> LOCATION: 184, 190, 194, 195, 200, 202, 207, 209
1054 <223> OTHER INFORMATION: c, t, a or g
>1056 <221> misc_feature
1057 <222> LOCATION: (1)...(304)
1058 <223> OTHER INFORMATION: n = A,T,C or G
>1060 <400> 42
>1061 tncatangcc ctgaggtggg gacgaagccc gagtccgtcc tgacatgttt ccagtggaaa 60
1062 agattttgtt ntgagcgttn ctttctnntt tnttttnnnt tgnttgttnn atgttttgt 120
1063 tgttgttttn ttnaaactgt ntgttgncan ttcaacatna anggnaggna antntgtgnc 180
1064 tncnttgcan tgtnncatgn tncccananc ccaaaaaaaa aaaaaaaaaa aaaagagta 240
1065 caaatatcac aaaatttgac atttttgtaa taatactttg gttgttgttt ggtgacggcg 300
```

P 2

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/725,969

DATE: 12/15/2003
TIME: 15:38:01

Input Set : A:\34587-C-PCT-USA-I .txt
Output Set: N:\CRF4\12112003\J725969.raw

```
  1066 attg
> 1067 ny02:364000.1
> 1069 ny02:364000.1
```

304

delete

see p. 3 for more errors

```
244 <400> SEQUENCE: 14
245 aatcgggctg gatgggtgta tccggcactg tttcgtagcg gcagcaactg ggtgcttcta 60
246 tctgaaagcg ggcttcacaa aaactactgc gccacccgac tcgctgcggc atcgcccggt 120
247 ggcgagtacc gtatcgcctt tcctggtgca gaagaagtgt ttacaggagg cggtcattta 180
248 ccgcaatctg attctgtttt ttattctccc tggcgggtga tcgcgatcgg cagtttgaaa 240
249 acgatcgttg aatccacgct cgggaatgat gtggcttcgc cgccaacgct tactgacatt 300
250 tcatttgtac agcccgatt                                              319
252 <210> SEQ ID NO: 15
253 <211> LENGTH: 287
254 <212> TYPE: DNA
255 <213> ORGANISM: rattus norvegicus
257 <400> SEQUENCE: 15
258 gccgagctgt gtaaaaccat ctatcctctg gcagatctac ttgccaggcc actcccaggg 60
259 ggggtagacc ctctaaagct tgagatttat cttacagatg aagacttcga gtttgcactc 120
260 gacatgacca gagatgaatt caacgcactg cccacctgga agcaaatgaa cctgaagaaa 180
261 gcgaaaggcc tgttctgagg gtgagatgac agccacagag aggtcactgc cactagacca 240
262 gaaagtggat ggagatatat atttggactg gtgttttttt ctgtcag            287
264 <210> SEQ ID NO: 16
265 <211> LENGTH: 344
266 <212> TYPE: DNA
267 <213> ORGANISM: rattus norvegicus
269 <220> FEATURE:
270 <221> NAME/KEY: unsure
271 <222> LOCATION: 208, 269, (337)
272 <223> OTHER INFORMATION: c, t, a or g
274 <221> NAME/KEY: misc_feature
275 <222> LOCATION: (1)...(344)
276 <223> OTHER INFORMATION: n = A,T,C or G
```
"a" is at location 337 "n" is at location 338

```
W--> 278 <400> 16
279 atcgggctgc agattggaga caagatcatg caggtgaacg gctgggacat gaccatggtc 60
280 actcatgacc aggctcggaa gcggctcacc aaacgttcgg aggaagtggt ccgcctgctg 120
281 gtgactcggc agtctctgca gaaggccgta cagcagtcca tgctgtcata gctgtagtca 180
W--> 282 gcctagactt ctgcccactg acctttngg gcactgagaa cacatccacg ctctgtctgt 240
W--> 283 atctagttct ggcttctgct gtgtgctang ccccagctct gaggagtaac agctgatccc 300
W--> 284 aaaggtccaa gccaaccttc ttacccctca gcccccancc cgat            344
286 <210> SEQ ID NO: 17
287 <211> LENGTH: 300
288 <212> TYPE: DNA
289 <213> ORGANISM: rattus norvegicus
291 <400> SEQUENCE: 17
292 tttttttttt tttgggcaac tatgtattta ttgtgtttgg aaggcagagt gagggaggag 60
293 accccagcag gaagaagact gggtgcagtc tagagttcct agtcaagagt aggaaggttt 120
294 ctgttatacc catcatagaa cgagagaggg ggctcaatag atcatcccct ttgtctctcc 180
295 acggggcttc ttgagcttct caaagttctt caggatgatg tcatataaca cagcataagc 240
296 gttacggatc tccatgacca tcagccggat ctcctggtat tccgcctcgt ccagctcggc 300
299 <210> SEQ ID NO: 18
300 <211> LENGTH: 461
301 <212> TYPE: DNA
302 <213> ORGANISM: rattus norvegicus
```

RAW SEQUENCE LISTING ERROR SUMMARY　　　DATE: 12/18/2003
PATENT APPLICATION:　**US/10/725,969**　　　TIME: 11:22:08

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF4\12182003\J725969.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 5,93,153,199,217,218,221,247,259,260,274,333,335,358,360
Seq#:3; N Pos. 140,163
Seq#:7; N Pos. 145
Seq#:8; N Pos. 42,107,126
Seq#:11; N Pos. 254,255,256,305,318
Seq#:13; N Pos. 59,101,110,122,131,133,148,189,191,198
Seq#:16; N Pos. 208,269,338
Seq#:18; N Pos. 3,161,181,190,459
Seq#:21; N Pos. 449,476,478,520,526,535,570,573,581,615,619,628
Seq#:23; N Pos. 5,11,12,13,16,18,21,23,30,36,40,41,48,50,53,55,56,59,72,91
Seq#:23; N Pos. 92,103,106,120,123,129,133,136,138,143,153,155,157,165,168
Seq#:23; N Pos. 171,175,178,180,181,182,194,200,205,207,210,213,214,225,232
Seq#:23; N Pos. 244,274,281,285,294,299,313,337,349,353,358,360,374,386,388
Seq#:23; N Pos. 411,414,415,452,482,487,497,499,513,540,542,556,558,559,563
Seq#:23; N Pos. 597,608,621,647,661,662,671,675
Seq#:28; N Pos. 652,1523
Seq#:29; Xaa Pos. 217
Seq#:38; N Pos. 10,11,12,13,18,20,29,30,31,39,40,46,47,49,58,71,84,90,103
Seq#:38; N Pos. 111,123,126,139,141,165,185,192,199,204,211,213,214,228
Seq#:39; N Pos. 6,11,12,28,37,40,50,68,74,86,89,93,101,107,117,145,159,163
Seq#:39; N Pos. 164,169,172,178,179,184,186,191,192,203,204,205,215,218,219
Seq#:39; N Pos. 228,229,232,233,235,237,239,245,247,248,250,252,254,266,274
Seq#:39; N Pos. 279,284,288,290,300,304,312,317,322
Seq#:42; N Pos. 2,7,71,80,87,88,92,97,98,99,103,109,110,130,133,141,147,150
Seq#:42; N Pos. 159,162,165,169,172,174,179,182,184,190,194,195,200,202,207
Seq#:42; N Pos. 209

Input Set : **A:\34587-C-PCT-USA-I .txt**
Output Set: **N:\CRF4\12112003\J725969.raw**

```
1 M:270 C: Current Application Number differs, Replaced Current Application Number
2 M:271 C: Current Filing Date differs, Replaced Current Filing Date
8 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
9 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
41 Repeated in SeqNo=1
3 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
6 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120
32 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
35 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:120
52 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
41 Repeated in SeqNo=8
97 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
02 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:240
41 Repeated in SeqNo=11
32 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13
33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
41 Repeated in SeqNo=13
78 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:180
41 Repeated in SeqNo=16
13 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
14 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
41 Repeated in SeqNo=18
59 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21
67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:420
41 Repeated in SeqNo=21
99 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23
04 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23
08 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23
12 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:23
13 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
41 Repeated in SeqNo=23
60 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:28
71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:600
41 Repeated in SeqNo=28
96 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
97 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!
27 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:208
73 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:38
77 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:38
78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
41 Repeated in SeqNo=38
99 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:39
003 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:39
007 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:39
008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
41 Repeated in SeqNo=39
```

Input Set : **A:\34587-C-PCT-USA-I .txt**
Output Set: **N:\CRF4\12112003\J725969.raw**

```
056 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:42
060 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:42
061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
41 Repeated in SeqNo=42
067 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:308 SEQ:42
067 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:10
067 M:112 C: (48) String data converted to lower case,
54 Repeated in SeqNo=42
069 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:10
12 Repeated in SeqNo=42
069 M:252 E: No. of Seq. differs, <211> LENGTH:Input:304 Found:312 SEQ:42
```